

THE TECH

VOL. XXVIII. No. 19

BOSTON, MASS., WEDNESDAY, NOVEMBER 11, 1908

PRICE THREE CENTS

FIELD DAY DINNER PROVES A SUCCESS

**Freshman and Sophomore
Contestants Gather
at the Union**

DEAN BURTON SPEAKS

**Cross Country Cup Replaces Field
Day Cup Locked in
Bursar's Safe**

Sixty-three men were present at the Field Day Dinner in the Union Saturday evening. After the cross-country cup, which took the place of the Field Day cup, locked up in the Bursar's safe, had been passed from hand to hand and a number of yells had been given, Maj. Briggs assumed his role of toastmaster. He gave a short history of Field Day and its origin, and presented the football used in Saturday's contest to Capt. Eicher of the freshman team. Eicher responded with a few words thanking the Major for the support the Advisory Council had given Field Day and the freshmen for the support given to their football team. Maj. Briggs then added a few words about gymnasium work and its bearing on track work, and introduced J. W. Rollins 1878. Mr. Rollins spoke principally of the condition of athletics when he was a student and of the improvement since then, closing with a few words on the spirit shown in Tech athletics and so much needed in business life. "Play until the whistle blows," he said, "win if you can, but lose squarely and fairly."

Harry A. Rapelye 1908, was the next speaker. He expressed President Noyes' sorrow at being unable to attend the dinner and spoke briefly of the President's attitude toward Field Day. "He thinks," said Mr. Rapelye, "this is the best Field Day ever held, and that it gets better every year."

Mr. Briggs then introduced Dean Burton. The keynote of his talk was Tech spirit and the need of keeping it up to its present high standard. He contrasted the spirit of the Tech Field Day with the hazing spirit in other colleges, and the independence and student government in Tech with the stringent faculty control in certain other universities. He closed by congratulating the freshmen on the manner in which they won their victory and the sophomores on the gentlemanly way in which they lost Field Day.

Major Briggs closed the evening with a short talk on the control of Tech athletics.

GOES TO WALLA WALLA

**Dean to Attend Convention for
New School**

Dean Burton has been invited by the Board of Overseers of Whitman College, Walla Walla, Washington, to attend an educational convention to be held at Walla Walla on November 17 and 18. It is intended to establish at Walla Walla a new technical school with departments in civil, mechanical, electrical and mining engineering. The trustees of Whitman College hope to raise one and one-half million dollars for the purpose of starting this technical school at once.

Among the speakers at this convention will be Anson Phelps Stokes, the secretary of Yale University, and Dean Burton.

Professor Burton intends to visit Portland, Oregon, before he returns in order to meet members of the Technology Alumni, who are thinking of forming a new club called the Technology Club of the Pacific Northwest. In order to arrive at Walla Walla in time for the convention it will be necessary for Dean Burton to leave on Wednesday, November 11; he expects to return on the 25th or 26th.

BASKETBALL TEAM BEGINS PRACTICE

**Three Men of Last Year's
Team Back in the Game—
Prospects Bright**

SCHEDULE IS GOOD

**Although but Four Home Games,
Many are Arranged with
Neighboring Colleges**

With three of last year's five men back at the Institute this year the chances for a first class basketball team look exceedingly good. P. M. Wentworth 1909, who was captain of last year's team, has been re-elected to that position. Wm. B. Hargraves 1910, manager, and T. B. Parker 1911, both of whom played on last year's varsity and will be on the team again this year.

The schedule that has been arranged is a good one, but plans have been made for only four home games. This is due to the fact that the student body does not give enough support to the team. The attendance at the home games last year was far below what it should be; and when it is considered that each home game played caused a deficit of twenty dollars it is evident that a large number of home games is impossible.

The Athletic Association has supported the team to as great an extent as possible, but owing to the present condition of the finances of the Association, that support amounts to little. If the student body would attend the home games, and back the team as they should, a better schedule would be arranged and basketball would be made more than self-supporting.

The fight for the two regular positions and also the two substitute places promises to be a warm one.

Giessey, Gregory 1909, who played on the varsity in 1906, and F. G. Taite 1909, seem to be the best men, but C. E. Green 1910, and J. H. Ruckman 1910, both of last year's second team, are pushing them hard. Other men on the squad who show promising ability are R. E. Schatz 1911, who is manager of this year's second team, R. G. MacPherson, R. B. Stone 1912, I. S. Hartman 1910, and A. L. Lyle.

Manager Hargraves has arranged for practice on Wednesday and Saturday afternoons, the freshman Gym classes making it impossible for the team to have the floor more than two afternoons a week. Permission has been secured from the Bursar, however, to use the Gym two evenings every week.

Every man who knows anything at all about the game should come out for the team. Mr. John Fox, of the C. L. A. of East Boston, has been engaged to coach the team and he wants a large squad so as to be able not only to complete the varsity, but also to have a good second team.

SHOW COMPETITIONS

Competitions for the business and advertising managements of the Show begin this afternoon. Candidates for the business department will report to the business manager, Carl J. Sittinger, in 37 Rogers. Under this department comes the soliciting of advertisements for the program, the making of contracts, and the entire charge of the financial affairs of the Show.

Those who wish to try for the advertising end of it will report to the advertising manager, Dudley Clapp, in Room B, the Union. This department has charge of advertising the Show, writing stories for the papers, taking charge of the poster competition, the mail, and paid newspaper advertising. In each department two assistants are needed, preferably a freshman and sophomore. The work is good training for anyone and is not difficult, and it is hoped that a large number will take advantage of the unusually good opportunity this year.

GREAT ECONOMY IN NEW ENGINE

**Inventor Shows Advantages
Gained in Rotary Type
of Generator**

PREDICTION OF FLYING

**No Idle Dream that Successful
Machine Would Be
Developed**

A practical rotary steam engine, the machine which has baffled all inventors since the time of James Watt, was the subject of the talk of its inventor, James Emery Harriman, Jr., at the meeting of the Mechanical Engineering Society, last evening in the Union.

The first part of his talk was devoted to the value of the rotary engine in comparison with other types of engines. He explained that after five years of labor he has at last devised an engine, which overcomes the principal defects of the old reciprocating engine and also those of the turbine engine.

According to its inventor the rotary engine has great advantages on account of its economy of power, its ability to start instantly and with its greatest power, and its great economy of space.



J. E. Harriman

Mr. Harriman said in part:—"Five years ago it was my pleasure to address another society of this institution, and at that time I predicted that the flying machine was no idle dream. Now that the flying machine is an accomplished fact I do not hesitate to now come before you and state as my belief that within five years the rotary engine will be a factor in the race for supremacy among generating engines. When at last it is an accomplished fact that a flying machine, thousands of times heavier than the air displaced by it, is propelled with the equal grace of the flying bird; why should one hesitate in the endeavor to accomplish this seemingly simple thing of making a rotary engine."

"For more than 2000 years the horse, that animated, perfect engine of power and grace, has continued to hold a supreme position. All mechanical power is compared to his might, and I and my associates are ready to defend in the competition for honors, our little rotary engine that practically did four horse power with less than 240 pounds of steam."

Mr. Harriman spoke to more than 200 students and his speech was illustrated with 100 lantern slides and a small working model of his invention, the new rotary engine.

Mr. L. O. Towne, M. I. T. 1878, principal of the Haverhill High School, conducted a party of his pupils through the Institute buildings last Friday afternoon.

FRIDAY EVENING ENTERTAINMENTS

**Entertainment Committee
Will Continue Idea
of Kommers**

STEREOPTICAN LECTURE

**Mr. Humphreys Will Give First
Talk on Western Indians
and Cyclones**

When Dr. Pritchett was at the Institute he realized the advisability of some sort of entertainment for the undergraduates. With this object in view the Kommers, patterned after the German student's gatherings of the same name, were started in 1902. Being held on Saturday evening, however, in the old inadequate Union their popularity was more or less transitory, and, they were finally given up.

To take their place, the Entertainment Committee intends to hold some sort of informal entertainment in the Union every Friday evening of the old school year except those immediately before or after examinations or during vacation. These entertainments, for which there will be no charge, will be held in the Social Room, at 7:45, for about an hour. After the event of the evening a light lunch will be served for 10 or 15 cents at the maximum.

The first entertainment will be a smoke talk given on Friday, November 13, by Mr. Seth K. Humphrey 1898. Mr. Humphrey's subject will be similar to that given at the Technology Club last winter, on the Cherokee Indian Reservation and western cyclones. The talks will be illustrated by some excellent lantern slides from Mr. Humphrey's very valuable collection.

In general, the entertainment for the succeeding week will be announced on each Friday. Plans for this winter include talks on travel, popular science, including aeronautics, color photography, etc.; newspaper and magazine publications, and perhaps a musical number.

TECHNOLOGY CLUB

The second Smoke Talk of the season at the Technology Club was given by Prof. William E. Story of Clark University, on Friday evening. His subject was, "Some Mathematical Problems."

The following Institute men have applied for membership in the club:—Frank G. Darlington 1881, Thomas C. DuPont 1884, John I. B. Larned 1908, Harold C. Faxon 1908, Raymond E. Drake 1908, John H. Locke 1908, Alfred R. Hunter 1908, Thomas A. Tillard 1909, Harold Sharp 1909, Clarence J. Brown 1909, Walter W. King 1909, Edwin Pugsley 1910, Walter R. Dray 1911, Lester W. Perrin 1911.

CALENDAR

WEDNESDAY, NOV. 11.

3:10 and 4:10—Candidates for business staff of Tech Show report in 37 Rogers.

4:00—Candidates for advertising staff of Tech Show report in Room B, Union.

THURSDAY, NOV. 12.

1:00—1912 class meeting in Huntington Hall.

7:15—Episcopalean Bible class meets in Parish House, Trinity.

8:00—American Leather Chemists dine at Hotel Brunswick.

FRIDAY, NOV. 13.

1:00—Rifle Club Executive Committee meets.

8:00—American Leather Chemists dine at Hotel Brunswick.

THE TECH

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H. L. PEARL 1910 *Editor-in-Chief*
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R. H. RANGER 1911

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G. C. KENNEY 1911 L. G. GLAZIER 1911
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D. R. STEVENS 1911 VICTOR GUILLOU 1912

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Wednesday, November 11, 1908.

The Tech regrets to announce the resignation of Richard Stuart Bicknell 1910, from the business staff, and of Harold Long Robinson 1911, from the news staff. George Bashford Forristall 1911, has been elected business manager to succeed R. S. Bicknell.

Owing to point system rulings further changes in the board have been necessary; Dudley Clapp 1910, advertising manager of the Tech Show, has been obliged to give up his duties as managing editor, and Donald Read Stevens 1911, of the Institute Committee, those of an associate editor. Mr. Clapp will remain on the board as an associate editor and Mr. Stevens as a member of the news staff.

Announcement is made of the appointments of Harold Martin Davis 1911, to the board of associate editors, of William Orr Whitney 1911, to the business staff, and of Victor Guillou 1912, to the news staff.

Field Day is over. The energy brought into play by the contests now finds no evident outlet. Rather than let this working force be lost, it should be directed toward the remaining activities.

Because of the rulings of the point system there are now open many places of unusual opportunity. This is particularly evident in the literary lines. Technique 1910 needs the co-operation of the entire student body, while on the Tech board there is great need of candidates because of recent forced resignations.

Particularly on the business work of The Tech are there opportunities for more men and any men who have had experience or who desire to take advantage of this chance to develop business ability are urged to try out. The way to start is to come to 30 Engineering C and learn what is required of candidates for the news or business staffs.

MARRIAGE

On Wednesday evening, Oct. 21, Mr. E. S. Baker 1905, was married to Miss Grace Bentley at New Haven, Conn. Mr. Baker is a member of the engineering force of the American Bell Telephone Company. The couple will make their home in East Orange, N. J.

LEATHER CHEMISTS

The annual meeting of the American Leather Chemists Association will be held at the Hotel Brunswick on Thursday and Friday of this week. All those interested in the chemistry of leather are welcome to the meetings. On Thursday evening Prof. Graves, of the Yale Forestry School, will address the Association, and on Friday afternoon an illustrated lecture will be given by Prof. Field of the Institute.

COMMUNICATION

Massachusetts Institute of Technology.
November 9, 1908.

ATTENTION—Is called to the rule of the Faculty which requires that all marks of D (or F in a Drawing or Laboratory course) must be removed not later than Dec. 1.

In case such deficiencies are not removed by Dec. 1st, the student shall be required to discontinue any dependent subjects, and can obtain a clear record only by repeating the subject in which the deficiency occurred.

Extension of time may be granted for exceptional reasons, provided a petition for such extension is presented before Dec. 1.

A. L. Merrill,
Secretary of the Faculty.

To the Editor of The Tech:—

The following extracts from a letter written by a member of the Corporation explain themselves. The writer has kindly sent to the Institute a number of copies of the book mentioned. It is to be hoped that students will appreciate the interest which has prompted the gift and will respond by a careful reading of the work.

A. B.
I have been much impressed with the value of Professor Royce's "Philosophy of Loyalty," and should like to know whether you think it would be of use to the students at the M. I. T. I fancy you will agree with me in thinking that Tech boys need the study of some philosophy to add dignity and contentment to their careers. Without it I suppose there is serious danger of their awaking at some period of their careers—either before or after graduation—to a sad feeling of inferiority, lack of development and uncertainty as to the worth of their attainments and of the objects of their ambition.

I hope that the Tech boy, while at the school, would be led by Royce's book to see that—though he is throwing his energy almost entirely into the course of study he has chosen, and is determined to be faithful to it and contented with it—there are other questions to be met and decided, and there is a need of learning just how clearly and for what reasons he is justified in his choice of an object of devotion. I hope he would be led to see that, by taking the trouble to consider these questions thoroughly and carefully, and by acquiring the habit of faithfully abiding by and squaring his life with his conclusions as to his duty, he comes to enjoy just as dignified and as worthy a place in the world as the Harvard graduate, or as anybody else. This result is of course well worth reaching, and the train of thought aroused by Royce's book seems to me an important aid to attaining it.

BEQUEST TO INSTITUTE

An unsigned will left by Mrs. Martha J. Averill of Middleton is said to contain a bequest of \$5000 to the Massachusetts Institute of Technology to be known as the Daniel Weston fund. The sum is to provide scholarships for Middleton young men. In case such are not forthcoming the money is to go to other worthy students.

GOING TO PRINCETON

Team Chosen—Consolation Race Captains for 1911 and 1912

As a result of the race last Friday, the cross-country squad has been cut down to seven men and one substitute. This squad comprises the team that will run in the intercollegiate cross-country race at Princeton, Nov. 21. Last year separate trials were held, but this year the two races came so close together that it seemed advisable to have the Harvard race serve as the trials for the Princeton team. The intercollegiate team is as follows:—H. H. Howland 1908, L. O. Mills 1910, J. F. McCarthy 1909, E. Jacobs 1910, C. P. Eldred 1911, J. N. Stephenson 1909, and R. Ellis 1909, captain. J. D. MacKenzie 1911, is the substitute.

Four men on this team will not be at the Institute next year and therefore strenuous efforts are to be made to bring out men to take their places. Several special races are to be held. The first of these is the annual handicap cross-country race which will be held Nov. 28, at West Roxbury over the championship course. This is practically a consolation race for those who did not make the team that goes to Princeton. Few of the Varsity men will run and these are put on scratch. Liberal handicaps are given, there are three prizes, and the insignia "cTe" is given those making the four fastest times.

This race will also give a line on the prospects for the freshman-sophomore race to be held in April. Last year 1911 won and this year can be counted on to try hard to have their numerals twice on the cross-country cup to make up for being shut out on the Field Day cup. The freshmen will have to get right to work if they are to have a look-in with the sophomores. New men are wanted for both teams and this race will serve as an introduction to cross-country work. Meetings will be held tomorrow at 1 P. M., in 26 and 27 Rogers to elect captains of the 1911 and 1912 teams. All men who are interested in their class and in cross-country are expected to attend.

In order that new men may not go into the race without any preparation light work has been planned for the next two weeks. A hare and hound run will be held Saturday at West Newton. Principal Jones 1886, has kindly placed the Allen School gymnasium with its fine swimming tank and shower baths at the disposal of the men. The round trip fare is 25 cents. Train leaves Trinity Place at 2:04 P. M., Saturday. There will be only one squad running as the cross-country team has special work that day. There will also be a walk over the handicap course on Sunday afternoon, under the guidance of F. F. Hunter 1902, who laid out the course. Train leaves Back Bay Sunday at 2:10 P. M. Fare is 10 cents.

EARLY CHURCH HISTORY

A dozen men were present at the first of a series of talks on "Early Church History," given by Dr. Alexander Mann in Trinity Parish House last Thursday evening. The talks are to be continued each Thursday evening until the Christmas vacation, with the exception of November 26.

Dr. Mann is well known by Tech students and these talks should prove popular and instructive. They are being given under the auspices of the Technology chapter of the Brotherhood of St. Andrew and it is hoped by the members that all students interested in the talks be present at next Thursday evening's talk.

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BATES DIGS IN EGYPT

Professor's Son Brings Home Rare Relics to Boston

Boston will soon come into possession of one of the finest collections of relics of the ancient Egyptians in the country through the efforts and excavations of Oric Bates, son of Prof. Arlo Bates, head of the English department at the Institute.

He was appointed last year to head the Harvard Art Museum expedition and to take charge of excavations around the third pyramid Ghizeh. By his recent discoveries there of a prehistoric temple Mr. Bates is declared to have been placed in the front rank of his profession.

Mr. Bates is a graduate of Harvard of the class of 1905, and has already rendered valuable services to the Egyptian Government as an archeological surveyor in its Nubian expeditions, and will soon return to Africa there to continue his work in the same position.

GLEE CLUB CUT

As a result of the first cut in the Glee Club, the present membership is as follows:

FIRST TENORS.

M. E. Comstock, Sp.
J. E. Crowley, Sp.
G. F. Maglott, 1910.
G. L. Mylchreest, 1910.
M. A. Tiernan, Sp.
A. S. Wiester.

SECOND TENORS.

P. L. Caldwell, 1911.
H. R. Fox, 1912.
G. S. Humphrey, Sp.
G. R. Lord, Sp.
L. G. Odell, Sp.
G. F. Shaffer, Sp.
H. P. Trevithick, Sp.

FIRST BASSES.

J. L. Campagne, 1912.
R. E. Coram, 1912.
K. W. Faunce, 1911.
R. D. Francis, Sp.
W. B. Jenkins, Sp.
C. P. Kerr, 1911.
S. W. Selfridge, 1912.

SECOND BASSES.

R. W. Brush, 1910.
W. S. Gordon, Jr., Sp.
C. A. Stewart, 1912.
C. L. Tuller, 1912.
E. M. Young, 1911.

All others leave music at Cage for
"Glee Club."

CHESS CLUB VICTORS

The Tech Chess Club won their first match of the year, defeating the Jewish People's Institute second team by a score of 4 to 1. A second game is scheduled with this team for Jan. 4. An exhibition match has been arranged for the near future, to be played simultaneously between Mr. Sussman, the New England champion, and several members of the Tech Club. The summary:—

M. I. T.		J. P. I.
Schmidt	1	0
Baker	1	0
Kaufman	1	0
Fuller	0	1
Morrill	1	0
	4	1

NOTICES

1912—Class meeting Thursday, Nov. 12, at 1 P. M., in Huntington Hall.

RIFLE CLUB—Executive Committee meets Friday at 1 P. M., in room as posted on bulletin board.

TECH SHOW—Contestants for Business Assistants meet at 37 Rogers, Wednesday Nov. 11, at 3:10 and 4:10 P. M.

BIBLE CLASS—Dr. Mann will give the second of his regular talks to Tech Episcopaleans, Thursday at 7:15 P. M., in Trinity Parish House.

SOPHOMORE—cross-country enthusiasts will meet tomorrow at 1 P. M. in 26 Rogers to elect a cross-country captain.

FRESHMEN—who are interested in cross-country will meet tomorrow at 1 P. M. in 27 Rogers to elect a captain to get up a team to race the sophomores over the Tech-Harvard course.

TORCHES—All men who want any of the torches which were carried in the Republican parade, and which are now in the old Union, are requested to call for the same immediately.

TECH SHOW—Competition for lyrics starts Monday, Nov. 16. Work will be judged strictly on merit. Candidates report at Room B, Union, at 4:15 P. M., Monday and Friday.

R. F. Goodwin, Stage Mgr.

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AND

PUBLISHED BY THE ASSOCIATION
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83 NEWBURY STREET, BOSTON

The Review aims to develop closer relations among Institute men and to stimulate their interest in the work of the College. It is in no sense an engineering magazine, but deals broadly with the problems of Technological Education and the responsibilities of the professional man.

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FACULTY NOTICES

DYNAMO ELECTRIC MACHINERY
 661—Problems due Nov. 21, 1908:
 Chap. III, Nos. 21, 23, 33, 34, and 35.

THIRD YEAR HIGHWAY ENGINEERING—The exercises in Highway Engineering will begin Tuesday, Nov. 17. Text Book: Baker's "Roads and Pavements." Walter Humphreys, Registrar.

CANDIDATES FOR GRADUATION
 —Notes in regard to status with reference to graduation have been sent to fourth year students who appear to have the possibility of completing their courses the present year. Any student who has not received a note should consult me if he expects to be a candidate for graduation in June, 1909.

A. L. Merrill,
 Secretary of the Faculty.

PHYSICAL TRAINING—The sections for Physical Training are indicated below.

Applications for excuse from the subject, or for transfer from one section to another must be made to Mr. W. C. Towne, instructor, before Wednesday, Nov. 11.
 Section 1—A-E Monday and Thursday, 4:15.
 Section 2—F-L Monday and Thursday, 5:05.
 Section 3—M-R Tuesday and Friday, 4:15.
 Section 4—S-Z Tuesday and Friday, 5:05.

REGISTER OF STUDENTS—Proofs of the Register of Students for the

Catalogue are now posted on the Bulletin Boards, and all students are requested to report at once to the Registrar any errors or omissions.
 The lists will remain posted until Thursday, Nov. 12, after which date no alterations can be made.

CLASSIFIED ADS

Advertisements under this head are inserted at the rate of five cents a line of six words, payable in advance, and copy should be handed to the business manager the morning before publication day.

SLIDE RULE—Cheap. Leave note at Cage for C. H. P.

LOST—About 10 days ago: "Differential Equations." Please leave at Cage.

LOST—Checkbook on Gloucester bank, in or near Walker, Tuesday, Nov. 3. Please return to Cage.

LOST—Please return umbrella taken from mineralogy laboratory Tuesday, to Cage for W. J. Seligman.

LOST—An umbrella in Rogers Building about a month ago. Marked R. H. Fox on handle. Return to Fox.

Will the person who took the I. O. F. pin from a freshman on the night of sophomore dinner please return it care of The Tech, 30 Eng C.

FOUND—Pair of blue cuffs with silver buttons in drawer to waiting desk at Union. Owner please identify same at Cage.

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EXAMPLES

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CHEAP ISN'T IT?

PROFESSOR R. C. MACLAURIN OF COLUMBIA INSTITUTE'S NEW PRESIDENT

ACTING-PRESIDENT AND DEAN SPEAK

Both Approve Committee's
Action In Choosing
Prof. Maclaurin

EXCEPTIONALLY FITTED

Columbia Man a Scientist and
Educator of Experience
and Talent

DR. NOYES

When interviewed in regard to Professor Maclaurin's selection for the office of President of the Institute, Dr. Arthur Amos Noyes, the acting president, said:

"I consider that the Institute is most fortunate in securing Professor Richard C. Maclaurin. He is a man who seems to possess in a remarkable degree the qualities which the position demands. He is a scientist of the first rank. He has had extended experience as a teacher and as a member of university faculties. He has an exceptionally wide knowledge of the systems of higher education in all the leading countries of the world, and has, moreover, shown especial interest in the development of the type of combined liberal and professional education for which the



Acting-President Noyes.

Institute stands. He is, in addition to all this, a man of deliberate judgment, broad cultivation, quiet enthusiasm and attractive personal qualities which have made him a favorite with his associates and students at Columbia."

DEAN BURTON

When interviewed in regard to the matter late last evening Dean Alfred E. Burton said, "The faculty are very sorry to lose Dr. Noyes as acting president, but they have known all along that he could not be induced to take the permanent presidency; that his life interests are bound up in his research work in the laboratory of physical chemistry. The period of Dr. Noyes' presidency has been one of the most progressive stages in the educational growth of the Institute."

"If we must have a new man we probably cannot do better than to have Dr. Maclaurin. The personal impression which I received from a few moments conversation with him was

(Continued on page 2.)



PROFESSOR RICHARD C. MACLAURIN

(Courtesy of the Boston Post.)

REPORT OF YESTERDAY'S MEETING

At a meeting of the Executive Committee of the Institute Corporation held this afternoon, it was voted to appoint, subject to confirmation by the Corporation, Richard C. Maclaurin, now in charge of the Department of Physics at Columbia University, President of the Massachusetts Institute of Technology, with the understanding that he will assume the duties of the position as soon as his engagements at Columbia permit. A special meeting of the Corporation is to be held on Monday, November 23rd, to take action with reference to the confirmation of this appointment. Professor Maclaurin has signified his willingness to accept the appointment.

LIFE AND WORK OF PRESIDENT-ELECT

Professor Richard C. Maclaurin, M.A., LL. D., D.Sc., now at the head of the Physics Department of Columbia University and Professor of Mathematical Physics in that institution, was born in Edinburgh, Scotland, in 1870. His early boyhood was spent in New Zealand, whence he returned, however, to complete his preliminary education in the English schools. In 1892 he entered the University of Cambridge, England, where he held a foundation scholarship in St. John's College. He took two degrees while at Cambridge, Bachelor of Arts in 1895 and Master of Arts in 1896. In his work for the latter degree, Mr. Maclaurin took the highest rank in the most advanced mathematical examination, being bracketed with the Senior Wrangler in the first division of the first class in part Two of the Mathematical Tripos. He also received the Smith Prize for the excellence of his thesis in mathematics.

Upon his graduation he was elected a Fellow of St. John's College.

During the years 1896 and 1897 he spent ten months in the United States and Canada, devoting himself to study and to visiting educational institutions of all classes, spending much time at McGill, Toronto, and Leland Stanford Universities.

Returning to England at the end of his American trip, he reentered Cambridge University, this time to study law, and was awarded the McMahon Law Studentship, the most highly valued of its kind in the university. He became a member, at this time, of the Honorable Society of Lincoln's Inn, London. During this period he spent six months, on a leave of absence, in studying in Germany.

In 1898 he was awarded the Yorke Prize by the University of Cambridge for his thesis on "The Title to Realty," a difficult and important topic in British law.

(Continued on page 3.)

OPINIONS OF MANY NOTED SCIENTISTS

Dr. Maclaurin Given Highest
Praise by Prominent
Scholars

FAME INTERNATIONAL

Qualifications as a Teacher and
Leader Especially
Extolled

The following are some of the testimonials which have been written by distinguished English scientists at the time Mr. Maclaurin went to the University of New Zealand, which have been secured by the Executive Committee of the Institute.

Lord Kelvin wrote: "Mr. Maclaurin is a young man from whom much may be expected. He comes of an old family famous in the annals of the intellectual history of Scotland. He has been trained in a school of thoroughness; and, with his businesslike power of seizing on the essentials of a problem and his great energy and determination, he should make a success of anything that he takes in hand."

Sir George Stokes, former President of the Royal Society, says: "I have been attracted alike by the fine character and by the scientific ability of Mr. Maclaurin. His interests are extraordinarily wide, and yet he has the power of concentrating all of his energy—and it is great—on any problem which he has on hand. He will make a success of anything he undertakes, if enthusiasm and effort will avail."

J. A. Iarmor, Fellow and Secretary of the Royal Society, said: "I am able without hesitation to express my judgment that Mr. R. C. Maclaurin is a skillful and profound mathematician, quite of the first rank."

Rev. C. E. Graves, M. A., Fellow and Classical Lecturer at St. John's College Cambridge, says: "Having known Mr. Maclaurin for some years, I may say that he is a man of high character and principle, of much originality and power; earnest, energetic, clearheaded, and sensible—a strong man who can hold his own and see his way, and one who at the same time will be thoroughly genial and reasonable and easy to work with and under."

Information of later date in regard to his work at New Zealand is contained in the following statements:

Sir Robert Stout, Chief Justice of New Zealand and Chancellor of the University, says: "Professor Maclaurin was a distinguished student in New Zealand, and the distinctions he afterwards won in Cambridge prove him to be a man of great intellectual ability. Moreover, he is no pedant, but a man of broad sympathies, clearheaded, and sensible; a good speaker, with a businesslike power of dealing with men. At the same time he is an admirable teacher. I had two sons attending his classes at the university, and I can, therefore, speak of his teaching abilities. They are of very high order."

Rev. W. A. Evans, M. A., Chairman of the Board of Trustees of the University of New Zealand, says: "Mr. Maclaurin's appointment in this university was more than justified by results. He proved himself to be a true teacher as well as a bright scholar. The influence he exercised over the students was in every way admirable, and he made for himself a unique position as a leader in the intellectual matters throughout the colony. To have had such a man as he is on the staff of the university gave the institution an educational tone that will

(Continued on page 2.)

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Thursday, November 12, 1908.

A permanent president has been successfully selected. Professor Richard C. Maclaurin comes to lead the Institute from a large experience in educational matters. The students and faculty, realizing the arduous character of the position, will extend to Dr. Maclaurin a cordial welcome into Institute life with every possible hope for continual progression by co-operation.

It is much to be regretted that Dr. Noyes has felt unable to accept the position which he has so competently filled for the past year. As acting-president he has rendered invaluable service not only to the educational side of the Institute, but particularly to the social side of student life. Largely through his efforts, the present Union has been successfully established on a working basis. Dr. Noyes has impressed on all the great worth of his memorable work as acting-president, and the president-elect will come into office with only the future to consider.

PRES. WHEELER'S TALK

California Man will Address Students at Convocation

Today at a general convocation Professor Benjamin Ide Wheeler of the University of California will address the students during the noon hour, in Huntington Hall.

Professor Wheeler's talk will be a particularly interesting one to Technology men, as he was one of those who recently had the position of President of the Institute offered to him. He refused this offer mainly because of his love for his own students and college. That this regard is reciprocated by the students is well known and Professor Wheeler enjoys the reputation of being one of the most popular of college heads in America.

Beside Professor Wheeler's speech it is very possible that President Noyes will say a few words in regard to the appointment of Dr. R. C. Maclaurin of Columbia to the position of President of the Institute.

The convocation is bound to be one of vital interest to the students of all classes, and the president asks a full attendance.

OPINIONS OF SCIENTISTS

(Continued from page 1.)

go far to insure its future success. Professor Maclaurin is a man of extraordinary versatility, great enthusiasm, and is unsparring of his labors for widening the influence of the university.

W. S. Aldis, M. A., former Principal of the Durham College of Science, says: "Of the large number of able and promising young men whom I have taught none of them has impressed me so powerfully as Mr. Maclaurin. His mental gifts are extraordinary, and behind a quiet and unassuming manner there lies great force of character and the power to carry him, and any institution that he controls, to almost certain success."

Donald Macallister, M. D., LL.D., President of the British Medical Council and Principal of the University of Glasgow, says: "Professor Maclaurin, by his academic work in more than one university and by his original contributions to mathematical and physical science, has won for himself an enviable name on both sides of the world. His personal qualities are equally admirable; and they have made for him fast friends in each of his fields of work. His powers, his attainments, and his energy justify all who know him in promising for him a valuable and indeed a brilliant career."

DEAN BURTON SPEAKS

(Continued from page 1.)

distinctly favorable. His age for one thing is in his favor, and the fact that his scientific training and educational experience has been gained principally in other countries should not count against him. To my mind it is distinctly an advantage. The Institute has sufficient educational strength and character to insure a continued individuality and its growth is likely to be much stimulated by the influence of this young Scotchman."

LEATHER CHEMISTS

The annual meeting of the American Leather Chemists Association will be held at the Hotel Brunswick on Thursday and Friday of this week. All those interested in the chemistry of leather are welcome to the meetings. On Thursday evening Prof. Graves, of the Yale Forestry School, will address the Association, and on Friday afternoon an illustrated lecture will be given by Prof. Field of the Institute.

BATES DIGS IN EGYPT

Professor's Son Brings Home Rare Relics to Boston

Boston will soon come into possession of one of the finest collections of relics of the ancient Egyptians in the country through the efforts and excavations of Orin Bates, son of Prof. Arlo Bates, head of the English department at the Institute.

He was appointed last year to head the Harvard Art Museum expedition and to take charge of excavations around the third pyramid Ghizeh. By his recent discoveries there of a prehistoric temple Mr. Bates is declared to have been placed in the first rank of his profession.

Mr. Bates is a graduate of Harvard of the class of 1905, and has already rendered valuable services to the Egyptian Government as an archeological surveyor in its Nubian expeditions, and will soon return to Africa there to continue his work in the same position.

GYM CLASSES AT WORK

Freshman Attendance Poor at First Meeting—New Instructor

Regular work in physical training began at the gymnasium Monday afternoon. Only about 25 freshmen showed up for the first section meetings and some of these came without suits. Owing to illness Mr. Towne was unable to be present at this time. His place was taken by assistant instructor Bruce, who put the men through a few simple exercises as an introduction to the later work.

The importance and seriousness of the course in physical training must be much more fully realized. The instructors have laid out a systematic program for the year. During the first two weeks attention will be given to light work and the rudiments of calisthenics to be followed by Swedish movements, dumbbell, and apparatus work. The prospects for a gymnasium team are as yet uncertain. Wilson, Gott, and Courtney of last year's squad, have reported for work, but Howell and Darrow are not at the Institute this year.

Most of the freshmen have taken strength tests and many of them have elected gymnasium work in preference to athletics.

Because of the compulsory work in the freshman year, physical training is to be a much more integral part of the business of the Institute than it has been heretofore. Mr. Towne is to be assisted in his duties as instructor by Mr. Harold A. Bruce. Mr. Bruce was captain of the Chauncy Hall School track team in 1901 and at the same time had charge of some of the boys' gymnasium classes at the Boston Y. M. C. A. Later on he was captain of the cross-country track and football teams at the Frye School in Boston and also of the football team at Burdett College the year the team defeated Exeter. Also in 1904 he ran in the Olympic games at the St. Louis exposition and for some time held the interscholastic championship in the 10-mile run. Mr. Bruce is to study this year at Sargent's School in Cambridge in addition to his work at the Institute.

The department of physical training has issued a little booklet containing a preface by President Noyes and a series of tables by means of which the particular body defects in any individual case may be indicated and the proper exercises for removing the defects prescribed. One of these booklets is given to each man taking a strength test and in it are recorded his special needs and the way in which he can supply them. At the end of the booklet is an anthropometric table in which the physical condition of the student is plotted at the beginning and end of the season so that the improvement during the year may be shown. Besides this there is much miscellaneous material on the general care of the body which is of interest to all the men whether they are taking regular gymnasium work or not.

EARLY CHURCH HISTORY

A dozen men were present at the first of a series of talks on "Early Church History," given by Dr. Alexander Mann in Trinity Parish House last Thursday evening. The talks are to be continued each Thursday evening until the Christmas vacation, with the exception of November 26.

Dr. Mann is well known by Tech students and these talks should prove popular and instructive. They are being given under the auspices of the Technology chapter of the Brotherhood of St. Andrew and it is hoped by the members that all students interested in the talks be present at next Thursday evening's talk.

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LIEF AND WORK

(Continued from page 1.)

ish law. The thesis was published in English and French, and received world-wide comment from the highest legal authorities. Of it the Law Quarterly says, "It gives promise of a real school of legal history which may flourish and bear fruit, notwithstanding the general apathy of the profession toward everything not of obvious utility in practice." Professor Macmost coveted prizes of Cambridge University, in two absolutely different and distinct branches of learning—mathematics and law.

In 1898 he was appointed Professor of Mathematics in Wellington, where the University of New Zealand is located, and soon afterward became a trustee of the university. In this position he took an active part in the organization of technological education in the colony. In 1903 he was made Dean of the Faculty of Law in the University of New Zealand, which office he held for four years.

In the fall of 1907 he was invited to take the chair of Mathematical Physics in Columbia University in New York City, which had been previously occupied by Dr. Robert S. Woodward, now President of the Carnegie Institution of Washington. A year later he was placed in charge of the Department of Physics at Columbia University.

In 1898 the degree of Doctor of Science was conferred upon Professor MacLaurin by Cambridge University, in recognition of his researches in pure science; and he was again honored, in 1904, by that university with the degree of Doctor of Laws, for his achievements in the study of law.

Professor MacLaurin has written, in addition to his theses, a large number of scientific papers of a high order dealing with various mathematical and physical topics. In a recent number of the Revue Scientifique he has an article on "Higher Technical Education in the United States," in which the Massachusetts Institute of Technology is described as the typical American technological institution. Among other things he says in this article, "One may well question the wisdom of the policy common in American colleges and universities of separating, or attempting to separate,

'culture' from science and technology. The usual practice is to devote the earliest part of a student's life to so-called culture, and postpone his scientific and technical training to a later stage. This artificial arrangement is thoroughly irrational; for, if any separation be really required, it would seem more reasonable first to train the young mind thoroughly in scientific methods and leave the assimilation of real culture to a later period, when he has a broader outlook and a better knowledge of men and affairs. This is the educational principle underlying the training at the Massachusetts Institute of Technology."

In February, 1908, he published the first volume of a profound scientific treatise on "Physical Optics." Of this volume the Oxford Magazine says: "The appearance of the first part of Professor MacLaurin's treatise on 'Physical Optics' will be gladly welcomed by all who have followed his valuable contributions to the recent literature on this subject. The originality of the treatment and the suggestive manner in which the results of theory and experiments are compared at each stage of the inquiry will recommend the book to all students of Optics."

A reviewer in the Glasgow Herald writes: "The book will recommend itself to those skilled in higher mathematics. A good deal of the text embodies the substance of papers contributed by the author to the Royal Society. The volume contains much truly scientific analysis and shows great care in preparation."

It will be seen from these statements that Professor MacLaurin is familiar with the educational system of England, Germany, France, Australia, Canada, and the United States; that he has made a reputation for himself not only in scientific research and teaching, but also in legal investigation; and that he has had much experience as an educational administrator. He is known by scientific men all over the world; and his associates in educational, scientific and legal work in England, New Zealand, and New York concur in testifying to his high qualities as a man, a scholar, and an educator.

Y. M. C. U.—David C. Rogers, instructor in the Department of Sociology at Harvard, will speak at the Young Men's Meeting, in the Y. M. C. U. building, 48 Boylston Street, Sunday afternoon, Nov. 14, on "The Causes of Crime."

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 Wm. Rowan, Barber.
 A. H. Matz & Co., Tailors.
 Tech Bowling Alleys, Bowling.
 American Fountain Pen Co., Moore's Fountain Pen.
 Coes & Young, Shoes.
 Morse & Henderson, Tailors.
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 Bent & Bush, Tech Emblems.
 Red Glove Shop, Men's Gloves.
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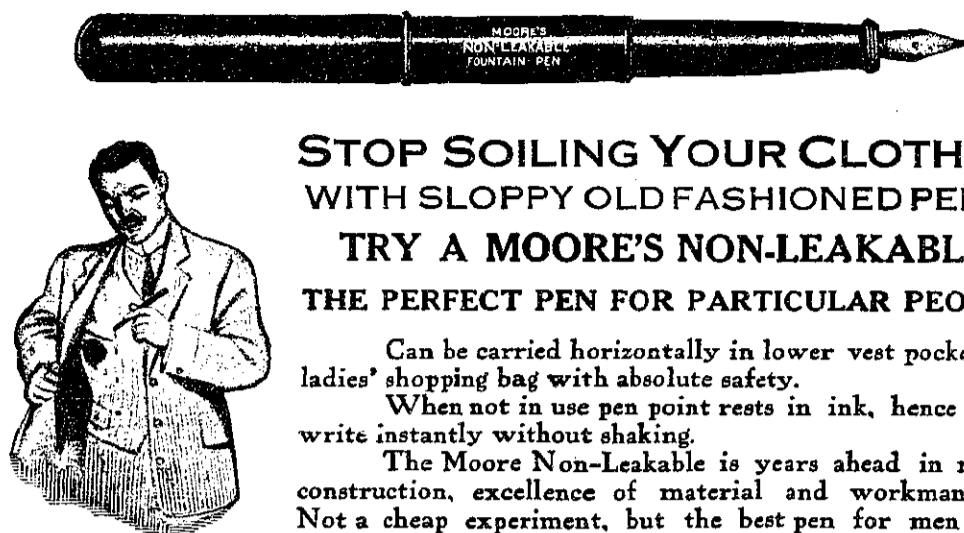
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FACULTY NOTICES

DYNAMO ELECTRIC MACHINERY
 661—Problems due Nov. 21, 1908:
 Chap. III, Nos. 21, 23, 33, 34, and 35.

THIRD YEAR HIGHWAY ENGINEERING—The exercises in Highway Engineering will begin Tuesday, Nov. 17. Text Book: Baker's "Roads and Pavements." Walter Humphreys, Registrar.

CANDIDATES FOR GRADUATION—Notes in regard to status with reference to graduation have been sent to fourth year students who appear to have the possibility of completing their courses the present year. Any student who has not received a note should consult me if he expects to be a candidate for graduation in June, 1909.

A. L. Merrill,
 Secretary of the Faculty.

PHYSICAL TRAINING—The sections for Physical Training are indicated below.

Applications for excuse from the subject, or for transfer from one section to another must be made to Mr. W. C. Towne, instructor, before Wednesday, Nov. 11.
 Section 1—A-E Monday and Thursday, 4:15.
 Section 2—F-L Monday and Thursday, 5:05.
 Section 3—M-R Tuesday and Friday, 4:15.
 Section 4—S-Z Tuesday and Friday, 5:05.

REGISTER OF STUDENTS—Proofs of the Register of Students for the

Catalogue are now posted on the Bulletin Boards, and all students are requested to report at once to the Registrar any errors or omissions.

The lists will remain posted until Thursday, Nov. 12, after which date no alterations can be made.

CLASSIFIED ADS

Advertisements under this head are inserted at the rate of five cents a line of six words, payable in advance, and copy should be handed to the business manager the morning before publication day.

SLIDE RULE—Cheap. Leave note at Cage for C. H. P.

LOST—About 10 days ago: "Differential Equations." Please leave at Cage.

LOST—Checkbook on Gloucester bank, in or near Walker, Tuesday, Nov. 3. Please return to Cage.

LOST—Please return umbrella taken from minerology laboratory Tuesday, to Cage for W. J. Seligman.

LOST—An umbrella in Rogers Building about a month ago. Marked R. H. Fox on handle. Return to Fox.

Will the person who took the I. O. F. pin from a freshman on the night of sophomore dinner please return it care of The Tech, 30 Eng C.

FOUND—Pair of blue cuffs with silver buttons in drawer to waiting desk at Union. Owner please identify same at Cage.

ROOM—Exceptionally fine single room to let; \$5.50 per week. Enquire at 207 Newbury Street.

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Perhaps you are in the musical clubs. Well then, you must know by this time that a dress suit is absolutely essential before you can appear at a public concert.

The best way to buy or sell second hand clothing at Technology is to place a small classified ad in **THE TECH**. Try it. The results will come.

EXAMPLES

FOR SALE.—Dress suit in good condition. Price moderate. Leave note at Cage for Jones.

WANTED.—In good condition a stylish dress suit. Leave note at Cage for H. M. Hopkinson.

THE TECH CLASSIFIED AD RATES FIVE CENTS A LINE
 OF SIX WORDS

CHEAP ISN'T IT?

THE TECH

VOL. XXVIII. No. 20

BOSTON, MASS., FRIDAY, NOVEMBER 13, 1908

PRICE THREE CENTS

SOCIETY OF ARTS HEAR LECTURE

**Frank Alvord Perret Talks
on Vesuvian Eruptions
and Volcanoes**

THEORY EXPLAINED

**Professor Perret Representative
of Research Society and
Brooklyn Institute**

Yesterday evening, Professor Frank Alvord Perret delivered a lecture on volcanoes to the Society of Arts. He came as the representative of the Volcanic Research Society and the Brooklyn Institute. At the observatory at Vesuvius, he was honorary assistant to Doctor Metuchie and his accounts of the late eruptions of Vesuvius, Etna and Stromboli enabled him to present a very interesting and instructive talk. Many of the slides illustrating the lecture were taken at great personal risk. One picture in particular was taken during an eruption of Mount Etna and looking down into the crater from an overhang, was greeted with merited applause.

Professor Perret opened his remarks with a few illustrations to show the enormity of the force with which he had to deal and the danger incurred in its study.

(Continued on page 3.)

SHOW NOW UNDER WAY

**Competition for Lyrics Begins
Next Monday**

Coach Francis will probably make known his choice of the new Tech Show before next Monday. The title will be announced at the "Tech Show Kommerz," at the Union, Nov. 21, and the envelope containing the author's name will be opened. The competition for lyrics will start Monday and is open to everyone. All men who have any ability in this line are urged to meet Stage Manager Goodwin in Room B, the Union, next Monday or Friday at 4. At that time suggestions for subjects of lyrics will be given out. Any good lyric, however, will be accepted and worked in. It is the desire of the management that lyrics be in early, that an early start may be made in the music.

Tickets are now on sale for the Tech Show dinner, to be held in the Union, Saturday, Nov. 21. All the former show members now at the Institute will be present and new men are particularly urged to go to find out about the greatest social event of the school year. Coach Francis will probably be on hand to speak. Members of previous shows will do "stunts" and furnish the evening's entertainment.

In answer to the call for candidates for the business and advertising managements Wednesday, 22 men expressed their intention of coming out for the business department, while only 6 selected the advertising end. The latter department is perhaps the most interesting of all the departments. There is a good chance this year as two assistants are to be picked, and it is hoped that more interest will be shown. Both competitions are still open and C. J. Sittinger and Dudley Clapp are ready at any time to take new names.

CALENDAR

FRIDAY, NOV. 13.

1:00 P. M.—Rifle Club Executive Committee.

3:00 P. M.—American Leather Chemists at Hotel Brunswick.

4:15 P. M.—Mandolin Club rehearsals.

SATURDAY, NOV. 14.

2:15 P. M.—Rifle shoot.

SUNDAY, NOV. 15.

6:35 P. M.—Y. M. C. A. at Union.

SYSTEMATIC PLAN IN GYM TRAINING

**Physical Training Important
Part of Instruction
this Year**

GYM CLASSES AT WORK

**Freshman Attendance Poor at
the First Meeting—
New Instructor**

Regular work in physical training began at the gymnasium Monday afternoon. Only about 25 freshmen showed up for the first section meetings and some of these came without suits. Owing to illness Mr. Towne was unable to be present at this time. His place was taken by assistant instructor Bruce, who put the men through a few simple exercises as an introduction to the later work.

The importance and seriousness of the course in physical training must be much more fully realized. The instructors have laid out a systematic program for the year. During the first two weeks attention will be given to light work and the rudiments of calisthenics to be followed by Swedish movements, dumbbell, and apparatus work. The prospects for a gymnasium team are as yet uncertain. Wilson, Gott, and Courtney of last year's squad, have reported for work, but Howell and Darrow are not at the Institute this year.

Most of the freshmen have taken strength tests and many of them have elected gymnasium work in preference to athletics.

Because of the compulsory work in the freshman year, physical training is to be a much more integral part of the business of the Institute than it has been heretofore. Mr. Towne is to be assisted in his duties as instructor by Mr. Harold A. Bruce. Mr. Bruce was captain of the Chauncey Hall School track team in 1901 and at the same time had charge of some of the boys' gymnasium classes at the Boston Y. M. C. A. Later on he was captain of the cross-country track and football teams at the Frye School in Boston and also of the football team at Burdett College the year the team defeated Exeter. Also in 1904 he ran in the Olympic games at the St. Louis exposition and for some time held the interscholastic championship in the 10-mile run. Mr. Bruce is to study this year at Sargent's School in Cambridge in addition to his work at the Institute.

The department of physical training has issued a little booklet containing a preface by President Noyes and a series of tables by means of which the particular body defects in any individual case may be indicated and the proper exercises for removing the defects prescribed. One of these booklets is given to each man taking a strength test and in it are recorded his special needs and the way in which he can supply them. At the end of the booklet is an anthropometric table in which the physical condition of the student is plotted at the beginning and end of the season so that the improvement during the year may be shown. Besides this there is much miscellaneous material on the general care of the body which is of interest to all the men whether they are taking regular gymnasium work or not.

SOPH RUNNERS MEET

A meeting in the interests of sophomore cross-country was held yesterday, with about a dozen present. Captain J. D. MacKenzie, of last year's team, presided. He urged the men to come out for the handicap run two weeks from Saturday and to put forth their best efforts before the spring contest with the freshmen. C. P. Eldred was elected captain of this year's team.

MACLAURIN CHOSEN TO HEAD INSTITUTE

**Columbia Professor Picked
for the Position by the
Corporation Committee**

BROAD EXPERIENCE

**He has Worked in England, New
Zeland, Australia and
This Country**

At the convocation yesterday Dr. Noyes spoke of Prof. Maclaurin as follows:—

"I desire to announce to you that the Executive Committee of the Corporation at a meeting yesterday voted to appoint Professor Richard C. Maclaurin, now at the head of the department of physics at Columbia University, permanent president of the Institute. Professor Maclaurin is a scientist of the first rank, known throughout the world for his many important researches in mathematical physics. He is an experienced teacher, having been for nine years a member of the faculty at the University of New Zealand and for one and one-half years of that of Columbia University. He has studied the system of higher education prevailing in most of the leading countries of the world, England, Germany, France, Australia, New Zealand, Canada, and the United States, and he has an especial interest in and sympathy with the form of education in applied science, which has been developed at the Institute. This experience is supplemented with a high character, with a quiet enthusiasm and a personal charm, which has made him a favorite among his associates and among his students, both in New Zealand and in New York. We may all therefore congratulate ourselves in having secured a man so well fitted for the presidency of the Institute. I shall hope to present him to you within a few weeks at a convocation."

Professor Maclaurin, now head of the Physics Department of Columbia University and Professor of Mathematical Physics in that institution, was born in Edinburgh, Scotland, in 1870. His early boyhood was spent in New Zealand, whence he returned, however, to complete his preliminary education in the English schools. In 1892 he entered the University of Cambridge, England, where he held a foundation scholarship in St. John's College. He took two degrees while at Cambridge, Bachelor of Arts in 1895 and Master of Arts in 1896. In his work for the latter degree, Mr. Maclaurin took the highest rank in the most advanced mathematical examination, being bracketed with the Senior Wrangler in the first division of the class in part Two of the Mathematical Tripos. He also received the Smith prize for the excellence of his thesis in mathematics.

Upon his graduation he was elected a Fellow of St. John's College.

During the years 1896 and 1897 he spent ten months in the United States and Canada, devoting himself to study and to visiting educational institutions of all classes, spending much time at McGill, Toronto, and Leland Stanford Universities.

Returning to England at the end of his American trip, he re-entered Cambridge University, this time to study law, and was awarded the McMahon Law Studentship, the most highly valued of its kind in the university. He became a member, at this time, of the Honorable Society of Lincoln's Inn, London. During this period he spent six months, on a leave of absence, in studying in Germany.

In 1898 he was awarded the Yorke prize by the University of Cambridge for his thesis on "The Title to Realty," a difficult and important topic in British law. The thesis was published in English and French, and received world-wide comment from the highest legal authorities. Of it the Law Quarterly

(Continued on page 3.)

ENGINEERS NEED BROAD TRAINING

**Pres. Benjamin Ide Wheeler
of California Speaks
at Convocation**

VALUE OF CHARACTER

**Students Should Set Out to be at
Top of their Profession
Says Californian**

That a broad education is just as necessary as scientific study for the future success of the engineer, was the main point made by President Benjamin Ide Wheeler of the University of California, at the convocation yesterday afternoon.

When Pres. Wheeler rose to speak, after his introduction by Pres. Noyes, a University of California cheer was given by a group of former students of that institution. He said that this made him feel much more at home and led him to speak as to his own students.

The theme of his talk was the necessity of a training on broad lines, on account of the dealings that engineers have with people as well as with stone and steel. He pointed out that a man is usually what he starts out to be and in closing warned his hearers that they could never be first-class engineers if they began life with the idea of being third-class. Dr. Wheeler's address was interspersed with many amusing remarks and was thoroughly enjoyed by every student in the room.

Before presenting Dr. Wheeler to the convocation, which was crowded away beyond the normal capacity of Huntington Hall, Dr. Noyes spoke to the students about the man who has just recently been selected as the permanent head of the Institute.

In introducing Dr. Wheeler to the meeting Dr. Noyes said:

"Today we are especially fortunate in having with us the distinguished president of one of the most successful American Universities, namely the University of California, which has, under President Wheeler's administration, grown not only in the number of students and the scope of its work, but also in what is far more important, the standard of its scholarship. Its form of education in the scientific and engineering branches is very similar to that of the Institute and the earnest and enthusiastic spirit of its students is, I believe, much the same as ours."

When I asked Prof. Wheeler upon what subject he would talk, he said, "Oh, I shall talk to them as if they were my own students."

I take great pleasure in introducing to you President Benjamin Ide Wheeler of the University of California.

Dr. Wheeler said in part; after hearing the Californian yell:

"I feel better already. This is just like one of our meetings at home. We have them every two weeks."

"I want first of all to congratulate you on the splendid man that has been secured for our presidency. It means that you have secured a man of international experience and of great ability. Every heart in the country that has the slightest interest in education has filled with joy at hearing the news. He will make a good president of the Institute. When you see him you will like him."

"Out in the middle west my boys are working side by side with those from Technology. They say there is no one so good as a University of California engineer except a Massachusetts Institute of Technology engineer. And the two always get on well together. They work together, too. So why should I not talk to you in the same way that I talk to my boys who come to me every fortnight and who go out in the hills to do the same work as you will go out to do."

(Continued on page 2.)

THE TECH

Published every Monday, Wednesday, and Friday during the college year by students of the Massachusetts Institute of Technology.

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Single Copies 3 Cents.

Printed by Old Colony Press, Boston.

Friday, November 13, 1908.

On Tuesday, October 27, the night of the sophomore dinner, a man not connected with the Institute was seized as he left a car at Copley Square, taken to the Union, robbed of a valuable pin, and then forced to perform in the living room for the benefit of his brave adversaries. The mistake in picking the wrong man is perhaps pardonable, and the spirit shown in taking one single man before a hundred sophomores and watching his antics might be partially explained upon the ground of the excitement of the moment, but the stealing of a piece of jewelry and the subsequent failure to return the same is not excusable on any grounds. The pin has been advertised in The Tech for two weeks without result. If the man who took the I. O. F. pin on the night of the sophomore dinner has any spark of decency he will leave the pin at the Cage for The Tech and need not disclose his identity. If the pin is not returned the only square thing for the sophomores implicated to do is to make good the loss.

Comparatively few undergraduates here realize the true importance of the Technology Club. In the October Review Seth K. Humphreys states a few of the advantages of the club and tells of some of the work that it has accomplished in the past.

Beside the privileges of a pleasant club house with lounging, dining, sleeping and billiard rooms, with smoke talks, social affairs and general good companionship, there is a deeper and broader idea in the foundation of such a club. It is to interest itself in Technology affairs and to promote the general welfare of the Institute.

That it has accomplished much along these lines cannot be questioned. In the house on Newbury street are held the meetings of the Walker Club, the Association of Class Secretaries, the Instructors' Club, the Technology Review and many other organizations. Here was the center of activity for the raising of the Walker Memorial fund and the Technology fund. The club is in close communication with all other Institute clubs throughout the country and is in short "a centre of activity for all who wish to maintain an appreciative, working interest in Institute affairs."

Undergraduates in the last term of their junior or in their senior years are eligible to membership, and the Club cordially invites all such men to be-

come members. In view of the importance of the club and its many privileges, it would seem as though all Tech men who have at heart the interest of the Institute and who enjoy all intercourse with their fellowmen should make it a point to gain admission to the club at their earliest opportunity.

COMMUNICATION

To the Editor of The Tech:—

In the "extracts from a letter written by a member of the Corporation," sent to The Tech by "A. B.," and published in the last issue, certain statements appeared to which I feel it my duty as a loyal Technology student to take exception. "A. B." says that they explain themselves, but it seems to me that they go far beyond this towards explaining a number of other things which most people about the Institute cannot understand. I do not wish to be understood as accusing the writer of falsehood, but that any member of the Corporation which controls the destinies of Technology should fall into such an attitude as his words imply seems pitiful, if not shameful, to me.

Technology has in the world at large the reputation of being one of the best schools of its class in the world—many people say the best. The scope of its work is necessarily limited, but the students are given as large a general training as possible along with their professional studies, and I doubt strongly if among its graduates many men can be found who are subject to "a sad feeling of inferiority, lack of development and uncertainty of the worth of their attainments" sufficiently keen to inspire them with the thought that perhaps if they would reform their methods of thought and work hard toward such an end, they might in a lifetime come to enjoy just as dignified and as worthy a place in the world as the Harvard graduate. Technology men are noted for their seriousness and sincerity of purpose, and while they may not have had the same chance for what is called liberal culture as the men at the academic colleges, they cannot be fairly accused as a class of either narrow-mindedness or lack of development.

But that is not the main question, as I see it. The writer was a member of the Corporation, and he seemed ashamed of the work the Corporation was doing. Competition among the engineering schools of this country is sharp nowadays, and every fair means is being used to advance the standing of each of the many technical institutions.

I wish my readers could have heard the speech Bursar Rand made at the senior dinner the other evening. His main idea was loyalty to Technology, and he said in just so many words that the Institute can only hold its present rank by the steadfast and faithful support of every one of its alumni. All around us schools are being subsidized, some by rich men and others by the states which founded them. Technology is poor. It has few endowments, and only by means of charging the highest tuition of any American college can it educate its students. All around us money is being spent to buy buildings, equipment, and men. Other colleges surpass or equal us in their buildings and equipment now. Technology excels in its men alone, and to keep them as they are is a struggle.

It would seem as though with as worthy a cause as the Institution has, supporters should flock to its aid, and I honestly believe they would if they were approached rightly. But no man who is ashamed of his work can make other people believe in it, and if many members of our Technology Corporation feel as this one seems to feel, Technology will lose out in the long run, as surely as though it deserved to fail.

W. Duncan Green 1909.

ENGINEERS NEED

(Continued from page 1.)

"You are going out to the same jobs as other people are going out to. I want to talk to you about the work that is being done in the west, for that is the place where the best work is being done."

"The reason why Boston people are not better liked out there is that they are too reserved and the westerners like people who slop over a little, who are brimming over with enthusiasm. They have no use for 'the man that had seen the big elephant and the little elephants too.'"

"Some people think that how well they will succeed will depend on how well they know logarithms and mathematics. This is a great mistake, for although these things must be known and known thoroughly there are other things that are just as essential. When you go out from here, there will be some that will draw away from the others at once. Some few men will go far ahead and generally it will be much to the surprise of their classmates."

"In many ways an engineer is going to be a success in proportion to his ability to state things well. I suppose you do not like English composition and you think that the business of getting up on your feet and talking is beneath the dignity of an engineer. You, however, are not going into the business of steel rails alone; you are going into the business of human society."

"You will be engaged pretty soon. (laughter) You are the kind of people that they want out there, but you must be able to ask the question and you must not take no for an answer. They want people out there with character, people that they can tie to."

"I wonder how many of you have made up your minds to be third-rate all your life. Many of the grinds that do very well in their studies here will not get along at all later on, because they will not take risks. There is always more return from anything in which you take risks. If you do not care to take any risks you may be content to settle down to a salary of \$1200 a year and perhaps rise some day to the height of \$1500."

"You have got to keep your wits constantly at work. It is very necessary for people to use their heads, but it is very seldom that they do. Some people fool themselves into believing that the mechanical processes going in on their brain is original thought. The men who leave the Massachusetts Institute of Technology must take the risk of thinking."

"The old New England characteristic of gumption is dying out. If you do not know what gumption is you are no New Englander. With the passing away of the necessity of people being able to do a great many different things there is a danger involved."

"You are going out into the world, not as mechanical engineers, not as civil engineers, not as electrical engineers, but as wholes—whole personalities. The people believe in personalities. They do not believe that a surgical operation can be successful and have the patient die. That is metaphysics."

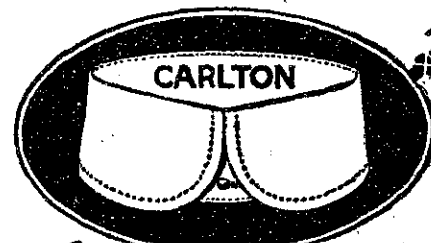
"The time is a time of great achievements. The United States lie between the east and the west, and busy endeavors are constantly crossing to and fro, engaged in a great period of construction. You owe it to yourself, you owe it to the Institute to go out and succeed. Young men, go out and be first-class men."

The enthusiasm after the convocation was remarkable. Deafening applause greeted the conclusion of Dr. Wheeler's talk and before the gathering broke up there was some good cheering. The students cheered Dr. Noyes as if to set the seal of their approval on his administration as the acting president of the Institute.

The convocation was the second of the year.

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of
Novelties

M. J. HANNIGAN

formerly of Hotel Lenox has leased
The Tech Barber Shop, Hotel
Westminster. Special attention
paid to students.

MACHLAURIN CHOSEN

(Continued from page 1.)
says, "It gives promise of a real school
of legal history which may flourish and
bear fruit, notwithstanding the general
apathy of the profession toward every-
thing not of obvious utility in prac-
tice."

In 1898 he was appointed Professor
of Mathematics in Wellington, where
the University of New Zealand is lo-
cated, and soon afterward became a
trustee of the university. In this posi-
tion he took an active part in the or-
ganization of technological education in
the colony. In 1903 he was made Dean
of the Faculty of Law in the University
of New Zealand, which office he held
for four years.

In the fall of 1907 he was invited to
take the chair of Mathematical Physics
in Columbia University in New York
City, which had been previously occu-
pied by Dr. Robert S. Woodward, now
president of the Carnegie Institution of
Washington. A year later he was placed
in charge of the Department of Physics
at Columbia University.

In 1898 the degree of Doctor of
Science was conferred upon Professor
Maclaurin by Cambridge University, in
recognition of his researches in pure
science; and he was again honored, in
1904, by that university with the de-
gree of Doctor of Laws, for his achieve-
ments in the study of law.

SOCIETY OF ARTS

(Continued from page 1.)

The description of the eruptions of
Mount Etna, April 29 and June 15, of
Mount Vesuvius, and Stromboli, April
27, were very vivid and entertaining.
During the lecture, the microphone vol-
canic conditions, were described and ex-
plained. The accuracy with which vol-
canic activity can now be predicted is
shown by the fact that a slight erup-
tion of Etna was predicted some time
before its occurrence, although the out-
ward appearances gave every indica-
tion of tranquillity.

Professor Perret offered several the-
ories in his lecture. At a lake of boil-
ing mud, gas is emitted from vents near
the base of the wall. If a lighted torch
is brought near, the invisible vapor be-
comes apparent. This, he believes, is
due to the ionization and condensation
of the particles. The last slide thrown
on the screen represented dynamic
curves, showing correspondence of ex-
plosive maxima with luni-solar phases.

KOMMERS REVIVED

Union Committee Invites Students
To Attend Tonight

This evening the old Kommers en-
tertainments, originally established
while President Pritchett was at the In-
stitute, are to be revived in slightly
different form by the Union Committee.
A series of programs has been arranged
including features of interest to all the
students, and a generous support is
hoped for. The entertainments will
start at 7:45 and will last from half
to three quarters of an hour, as this
arrangement is believed by the commit-
tee to be most convenient for the great-
est number of the students.

This week Seth K. Humphrey 1892,
will speak on the Cherokee Indian Res-
ervation and western cyclones. The
same talk was given a short time ago
at the Technology Club and was well
received there. Mr. Humphrey will il-
lustrate his talk with lantern slides
and his hearers are assured of a rare treat.

The old Kommers died from lack of
interest. The Union Committee hopes
that this time, however, with the cir-
cumstances so much more favorable, the
time so much more convenient and an
interesting program assured, that a
large number of men will attend
throughout the season and will show
their intention of doing so by coming
to the first meeting.

BETTER ATTENDANCE

An increased attendance was evident
at the second of the series of talks
given by Dr. Mann to Technology
Episcopaleans at Trinity Parish House
last night.

Dr. Mann traces the development of
the history of the early church as ex-
emplified by the Book of the Acts. The
talks are informal and practical and
are followed by a fifteen-minute dis-
cussion.

The next corporate communion of the
Technology Brotherhood of St. Andrew
will be celebrated at Trinity Church
next Sunday morning at 9 o'clock. All
communicants at the Institute are urged
to attend.

All Technology students are urged to
attend throughout the season and make
the success of the thing assured.

Such chances for a good time should
be taken advantage of by everyone.

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Education and the responsibilities of the pro-
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NOTICES

BIOLOGICAL SOCIETY—Meeting next Wednesday at 5:15 P. M., in 28 Pierce.

MINING ENGINEERING SOCIETY—Dinner, Wednesday, Nov. 18 at 7 P. M., at the Union.

NEWTON HIGH SCHOOL CLUB—All men from Newton High School are requested to meet in 22 Rogers, Wednesday, at 1 P. M.

HARE AND HOUNDS—Run at Allen School, West Newton, tomorrow. Shower baths and swimming tank. Leave Trinity Place at 2:04 P. M. Round trip 25 cents.

BIOLOGICAL SOCIETY—Dinner next Wednesday at 6 P. M., at Trinity Court Petit Lunch. Dr. B. R. Richards of the Boston Board of Health Laboratory will speak.

Y. M. C. U.—David C. Rogers, instructor in the Department of Sociology at Harvard, will speak at the Young Men's Meeting, in the Y. M. C. U. building, 48 Boylston Street, Sunday afternoon, Nov. 14, on "The Causes of Crime."

FACULTY NOTICES

CONVERSATIONAL TALKS IN GERMAN—Hereafter, Doctor Schumacher's talks will be given on Tuesdays instead of on Mondays from four to five. The topic of the Doctor's talk next Tuesday, the 17th inst., will be political parties in Germany.

SECOND YEAR, Course II, Wood Turning—Exercises in Wood Turning

for Course II, Section 1, will begin on Friday, November 27th.

Course VI, Wood Turning—Exercises in Wood Turning for Course VI, will begin on Monday, November 16th.
Peter Schwamb.

SECOND YEAR, COURSE III—Members of the class wishing to improve their records by doing their problems again may meet Professor Richards, Friday at 1:30.

CLASSIFIED ADS

Advertisements under this head are inserted at the rate of five cents a line of six words, payable in advance, and copy should be handed to the business manager the morning before publication day.

LOST—About 10 days ago: "Differential Equations." Please leave at Cage.

LOST—Please return umbrella taken from mineralogy laboratory Tuesday, to Cage for W. J. Seligman.

LOST—An umbrella in Rogers Building about a month ago. Marked R. H. Fox on handle. Return to Fox.

Will the person who took the I. O. F. pin from a freshman on the night of sophomore dinner please return it care of The Tech, 30 Eng C.

FOUND—Pair of blue cuffs with silver buttons in drawer to waiting desk at Union. Owner please identify same at Cage.

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